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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,153	10/30/2003	Ibrahim Abdulhalim	TNCR.196US2	1463	
72562 7590 01/17/2008 DAVIS WRIGHT TREMAINE LLP - KLA-TENCOR CORPORATION 505 MONTGOMERY STREET, SUITE 800			EXAMINER		
			LAUCHMAN, LAYLA G		
SAN FRANCIS	SAN FRANCISCO, CA 94111-6533		ART UNIT	PAPER NUMBER	
			. 2877		
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			MAIL DATE	DELIVERY MODE	
			01/17/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	-y
•	10/699,153	ABDULHALIM ET AL.	
Office Action Summary	Examiner	Art Unit	
	L. G. Lauchman	2877	
The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address	
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fron e, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status	· .		
 1) ⊠ Responsive to communication(s) filed on 16 Λ 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under the condition of the cond	s action is non-final. ance except for formal matters, pr	•	
Disposition of Claims		•	
4) ☐ Claim(s) 1-204 is/are pending in the application 4a) Of the above claim(s) 1-77 and 134-204 is 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 78-133 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	/are withdrawn from consideration	1.	
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).	,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv tu (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)		:	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Continuation Sheet	4) Interview Summary Paper No(s)/Mail C 5) Notice of Informal C 6) Other:	oate	

 $\label{lem:continuation} Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date : 4/03/2006; 12/01/2005; 3/12/2004; 3/05/2004.$

Application/Control Number:

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Election/Restrictions

Applicant's election without traverse of Claims 78-133 in the reply filed on is acknowledged. Claims 1-77 and 134-204 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 78-133 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The disclosure of the present application does not adequately set forth a system and a method obtaining overlay measurements. The specification does not disclose the claimed subject of the independent claims 78,101, 107,116, and 129 such as "the first and second sets of gratings are intended to be formed on the wafer with the intended asymmetrical alignment when the first mask and second mask are in alignment", and determining misalignment between the first and second sets of gratings formed using the first and second masks, respectively.

Applicants assert (Appendix A, page A-6, filed on 6/27/2006) that paragraphs 38, 40, and 76 of the present application describe the claimed subject matter. However, Fig. 5 (a & b)

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merely shows (in Fig. 5a) periodic structure 13 (51, 53) and (in Fig. 5b) interlaced periodic structure 13 (51, 53) with the periodic structure 15, which "as shown in Fig. 5b has a line-width L3 and is centered between ... lines 51 and ... lines 53" (paragraph 39). Further, in the same paragraph, the applicants disclose "The misregistration between the first layer 31 and the second layer 33 is equal to the misregistration ε between the first periodic structure 13 and the second periodic structure 15." The following formula for the misregistration (ε) is just a condition for the unit cell to be either "most symmetric" or "most asymmetric". However, the limitation of the above mentioned claims "the first and second sets of gratings are intended to be formed on the wafer with the intended asymmetrical alignment when the first mask and second mask are in alignment" is not adequately described in the specification. Moreover, the limitation appears to be in disagreement with the specification.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to L. G. Lauchman whose telephone number is (571) 272-2418. The examiner's normal work schedule is 8:00am to 4:30pm (EST), Monday through Friday. If attempts to reach examiner by the telephone are unsuccessful, the examiner's supervisor Gregory J. Toatley, Jr. can be reached on (571) 272-2059, ext. 77.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC receptionist whose telephone number is (571) 272-1562.

L. G. Lauchman Primary Examiner Art Unit 2877

1/11/2008